		Pushing the Er	
		2006 Scier	
		Content and Achieven	nent Standards
North Dakota Scienc	е		
Grade 5			
Activity/Lesson	State	Standards	
Types of Engines (			Identify the effects force and mass have on the
pgs. 11-23)	ND	SCI.5.5.3.4	motion of an object
Physics and Math			Identify the effects force and mass have on the
(pgs. 43-63)	ND	SCI.5.5.3.4	motion of an object
Rocket Activity (pgs.			Identify the effects force and mass have on the
69-75)	ND	SCI.5.5.3.4	motion of an object
		Duching the Fr	avalana
		Pushing the Er 2006 Scier	
		Content and Achieven	
North Dakota Scienc			
Grade 8			
Activity/Lesson	State	Standards	
Chemistry (pgs. 25-			
41)	ND	SCI.8.8.3.1	Identify elements and compounds
Chemistry (pgs. 25-			Explain the relationship between phases of
41)	ND	SCI.8.8.3.2	matter and temperature
			Interpret the effect of balanced and unbalanced
Physics and Math			forces on the motion of an object (e.g.,
(pgs. 43-63)	ND	SCI.8.8.3.3	convection currents, orbital motion, tides)
			Interpret the effect of balanced and unbalanced
Rocket Activity (pgs.			forces on the motion of an object (e.g.,
69-75)	ND	SCI.8.8.3.3	convection currents, orbital motion, tides)
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		2006 Scier Content and Achieven	
North Dakota Scienc		ontent and Achieven	nent Standards
Grades 9-10	е		
	State	Standards	
Activity/Lesson	State	Standards	Identify theories that have changed over time
History of Aviation		SCI.9-10.9-	Identify theories that have changed over time (e.g., alchemy, atomic structure, model of the
Propulsion (pgs. 5-9)	ND	10.8.4	solar system)
Propulsion (pgs. 5-9)	IND	10.0.4	Describe the relationship between form and
			function (e.g., solids, liquids, gases, cell
Chamietry (nac. 25		SCI.9-10.9-	specialization, simple machines, and plate
Chemistry (pgs. 25- 41)	ND	10.1.4	tectonics)
Physics and Math	IND	SCI.9-10.9-	Use Newton's Laws to describe the motion of a
-	ND	10.3.7	object
(pgs. 43-63) Rocket Activity (pgs.	ואט	SCI.9-10.9-	Use Newton's Laws to describe the motion of a
Rocket Activity (pgs. 69-75)	ND	10.3.7	object
00 70)	IND	10.5.7	- Joseph Control of the Control of t
		Pushing the Er	nvelope
		2006 Scier	nce
		ontent and Achieven	nent Standards
North Dakota Scienc	е		
Grades 11-12			

Activity/Lesson	State	Standards	
			Identify the principles and relationships
Types of Engines (		SCI.11-12.11-	influencing forces and motion (e.g., gravitational
pgs. 11-23)	ND	12.3.8	force, vectors, velocity, friction)
			Identify the principles and relationships
Physics and Math		SCI.11-12.11-	influencing forces and motion (e.g., gravitational
(pgs. 43-63)	ND	12.3.8	force, vectors, velocity, friction)
			Identify the principles and relationships
Rocket Activity (pgs.		SCI.11-12.11-	influencing forces and motion (e.g., gravitational
69-75)	ND	12.3.8	force, vectors, velocity, friction)